

SM processes	$e\mu$ channel
	$M > 480\text{GeV}/c^2$
$Z/\gamma^* \rightarrow \tau\tau$	0.002 ± 0.002
$Z/\gamma^* \rightarrow \mu\mu$	0.0005 ± 0.0003
$W \rightarrow \mu\nu(+\text{jets})$	0.0001
WW	0.01 ± 0.001
$t\bar{t}$	0.002 ± 0.002
Dijets and γ +jets	0.002 ± 0.002
Total SM background	$0.02 \pm 0.003 \pm 0.01$
Expected signal	$1.8 \pm 0.05 \pm 0.2$
Observed Events in data	0

TABLE 1. The expected signal ($M = 600\text{GeV}/c^2$) and SM background in $e\mu$ channel. The uncertainties on the individual background are statistic uncertainties. The uncertainties on the total SM background and expected signal are statistic and systematic uncertainties.